#9

# REPORT OF "TAR" AND NICOTINE CONTENT OF THE SMOKE OF 121 VARIETIES OF CIGARETTES AUGUST, 1971

The Federal Trade Commission's laboratory has determined the "tar" (dry particulate matter) and total alkaloid (reported as nicotine) content of 121 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

1. Smoke cigarettes to a 23 mm. butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.,

2. Base results on a test of 100 cigarettes per brand, or type,

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection",

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C. H. Sloan and B. J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content,

5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

Concerning the 121 varieties tested, 23 were capable of being smoked to 23 mm. or to an average range of between 23 and 24 mm. The butt lengths of the other 98 varieties tested range from 23 mm. to an average of between 37.7 and 39.8 mm. The butt lengths of 46 of the 121 varieties tested exceeded 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes during December of 1970 and January of 1971 in each of 50 geographic locations throughout the country. All locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where the respective varieties were available. The samples utilized in the tests were representative of the 121 varieties of cigarettes as available throughout the country at the time of purchase.

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In the Table listing the cigarette varieties in alphabetical order the "tar" content is reported to the nearest 1/10 milligram and the nicotine to the nearest 1/100 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 1/10 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated; the "tar" figures have been rounded off to whole numbers and nicotine figures to tenths of milligrams. Two tables respectively list varieties in increasing order of "tar" values and in increasing order of nicotine values, the other two lists tabulate the current and four previous tests. Accordingly, "tar" and nicotine figures in these tables and lists represent rounded off averages without indication of their precision.



Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

#9

"Tar"[4] and Nicotine[5] of One-hundred twenty-one (121) Varieties of Domestic Cigarettes

| Name | Type[1] | | Average weight[2] | Butt length[3] | TPM dry[4] * | Nicotine[5] * |
|---|---|---|---|---|---|---|
| Alpine | F, M, SP | 85 mm | 1.0584 | 29.1 - 30.1 mm | 18.4 ± 0.2 | 1.15 ± 0.02 |
| Belair | F, M, SP | 85 mm | 0.9685 | 28.9 - 29.4 mm | 17.1 ± 0.4 | 1.25 ± 0.02 |
| Belair | F, M, SP | 100 mm | 1.1613 | 31.9 - 33.8 mm | 18.7 ± 0.3 | 1.38 ± 0.02 |
| Benson & Hedges | F, HWP | 70 mm | 0.8821 | 23 mm | 18.4 ± 0.3 | 1.30 ± 0.02 |
| Benson & Hedges | F, HWP | 85 mm | 1.0628 | 26.6 - 27.8 mm | 19.9 ± 0.3 | 1.44 ± 0.02 |
| Benson & Hedges | F, SP | 100 mm | 1.1905 | 34.5 - 35.9 mm | 20.6 ± 0.5 | 1.39 ± 0.03 |
| Benson & Hedges | F, M, SP | 100 mm | 1.1895 | 33.8 - 35.8 mm | 20.6 ± 0.4 | 1.38 ± 0.03 |
| Bull Durham | F, SP | 85 mm | 1.1902 | 26.1 - 28.0 mm | 29.6 ± 0.5 | 1.86 ± 0.03 |
| Camel | NF, SP | 70 mm | 0.9381 | 23 mm | 24.7 ± 0.6 | 1.45 ± 0.03 |
| Camel | F, SP | 85 mm | 1.0200 | 26.0 - 28.0 mm | 19.5 ± 0.3 | 1.31 ± 0.02 |
| Carlton[6] | F, SP | 70 mm | 0.8443 | 32.7 - 33.9 mm | 2.6 ± 0.2 | 0.24 ± 0.01 |
| Carlton | F, Sp | 85 mm | 1.0288 | 32.7 - 34.7 mm | 3.8 ± 0.3 | 0.37 ± 0.04 |
| Chesterfield | NF, SP | 70 mm | 0.9422 | 23 mm | 24.9 ± 0.4 | 1.46 ± 0.04 |
| Chesterfield | NF, SP | 85 mm | 1.1253 | 23 mm | 29.2 ± 0.6 | 1.74 ± 0.03 |
| Chesterfield | F, SP | 85 mm | 1.0075 | 26.0 - 27.6 mm | 18.6 ± 0.4 | 1.22 ± 0.04 |
| Chesterfield | F, M, SP | 85 mm | 1.0276 | 25.8 - 27.7 mm | 18.5 ± 0.4 | 1.11 ± 0.02 |
| Chesterfield | F, SP | 101 mm | 1.2069 | 28.1 - 30.8 mm | 19.1 ± 0.3 | 1.29 ± 0.03 |
| Domino | NF, SP | 85 mm | 1.2701 | 23 mm | 27.3 ± 0.8 | 1.43 ± 0.06 |
| Domino | F, SP | 85 mm | 1.1035 | 23.4 - 27.2 mm | 21.4 ± 0.4 | 1.29 ± 0.03 |
| Domino | F, M, SP | 85 mm | 1.0861 | 23.4 - 24.8 mm | 19.6 ± 0.9 | 1.31 ± 0.10 |
| Doral | F, SP | 85 mm | 1.1325 | 32.3 - 33.8 mm | 14.0 ± 0.4 | 0.94 ± 0.02 |
| Doral | F, M, SP | 85 mm | 1.1438 | 32.2 - 33.8 mm | 14.2 ± 0.6 | 0.97 ± 0.04 |
| DuMaurier | F, HWP | 85 mm | 1.0229 | 26.3 - 28.6 mm | 17.8 ± 0.7 | 1.23 ± 0.05 |
| Edgeworth Export | F, HP | 85 mm | 1.0567 | 26.5 - 28.0 mm | 18.1 ± 0.3 | 1.20 ± 0.02 |
| Edgeworth Export | F, SP | 100 mm | 1.2489 | 31.0 - 32.8 mm | 18.6 ± 0.4 | 1.34 ± 0.03 |
| Edgeworth Export | F, M, SP | 100 mm | 1.2101 | 32.1 - 32.4 mm | 18.2 ± 0.3 | 1.32 ± 0.02 |
| English Ovals | NF, HWP | 70 mm | 0.9704 | 23 mm | 24.6 ± 0.7 | 1.76 ± 0.04 |
| English Ovals | NF, HWP | 85 mm | 1.2245 | 23 mm | 30.4 ± 0.8 | 2.24 ± 0.06 |
| Eve | F, SP | 100 mm | 1.1234 | 34.4 - 33.9 mm | 16.6 ± 0.6 | 1.16 ± 0.04 |
| Eve | F, M, SP | 100 mm | 1.1315 | 31.9 - 34.0 mm | 17.0 ± 0.4 | 1.09 ± 0.02 |
| Fatima | NF, SP | 85 mm | 1.1549 | 23 mm | 32.3 ± 0.6 | 1.88 ± 0.08 |
| Frappe | F, M, SP | 85 mm | 1.1127 | 25.8 - 28.5 mm | 9.5 ± 0.9 | 0.33 ± 0.04 |
| Galaxy | F, SP | 85 mm | 1.1526 | 28.1 - 29.5 mm | 20.0 ± 0.3 | 1.41 ± 0.03 |
| Half & Half | F, SP | 85 mm | 1.1529 | 25.7 - 28.0 mm | 23.9 ± 0.6 | 1.68 ± 0.04 |
| Herbert Tareyton | NF, SP | 85 mm | 1.1190 | 23 mm | 29.1 ± 0.5 | 1.80 ± 0.03 |
| Home Run | NF, SP | 70 mm | 0.8998 | 23 mm | 19.4 ± 0.6 | 1.27 ± 0.04 |
| Kent | F, SP | 70 mm | 0.8951 | 26.4 - 28.4 mm | 10.1 ± 0.2 | 0.57 ± 0.01 |
| Kent | F, HP | 80 mm | 0.9785 | 26.0 - 28.0 mm | 16.6 ± 0.2 | 0.97 ± 0.02 |
| Kent | F, SP | 85 mm | 1.0394 | 27.0 - 28.8 mm | 16.7 ± 0.4 | 0.96 ± 0.02 |
| Kent | F, SP | 100 mm | 1.2213 | 32.4 - 34.1 mm | 19.2 ± 0.3 | 1.16 ± 0.02 |
| Kent | F, M, SP | 100 mm | 1.2041 | 32.1 - 33.7 mm | 18.7 ± 0.4 | 1.14 ± 0.02 |
| King Sano | F, SP | 85 mm | 1.1421 | 27.1 - 28.7 mm | 5.7 ± 0.2 | 0.25 ± 0.01 |
| King Sano | F, M, SP | 85 mm | 1.1458 | 27.2 - 28.9 mm | 6.0 ± 0.2 | 0.24 ± 0.01 |
| Kool | NF, M, SP | 70 mm | 0.8948 | 23 mm | 20.8 ± 0.4 | 1.34 ± 0.04 |
| Kool | F, M, SP | 85 mm | 0.9686 | 26.8 - 29.3 mm | 18.4 ± 0.3 | 1.40 ± 0.03 |
| Kool | F, M, SP | 100 mm | 1.1239 | 31.8 - 34.9 mm | 19.0 ± 0.3 | 1.37 ± 0.02 |
| L & M | F, SP | 70 mm | 0.8891 | 23.4 - 25.0 mm | 16.4 ± 0.3 | 0.98 ± 0.03 |
| L & M | F, HP | 80 mm | 0.9539 | 26.2 - 27.4 mm | 16.9 ± 0.5 | 1.08 ± 0.04 |
| L & M | F, SP | 85 mm | 1.0051 | 25.8 - 27.7 mm | 19.0 ± 0.4 | 1.26 ± 0.03 |
| L & M | F, SP | 100 mm | 1.2003 | 27.3 - 31.5 mm | 18.8 ± 0.5 | 1.29 ± 0.03 |
| L & M | F, M, SP | 100 mm | 1.2244 | 27.8 - 30.6 mm | 18.7 ± 0.3 | 1.19 ± 0.03 |
| Lark | F, SP | 85 mm | 1.1581 | 27.3 - 28.8 mm | 16.7 ± 0.4 | 1.03 ± 0.02 |
| Lark | F, SP | 100 mm | 1.2808 | 30.1 - 31.9 mm | 18.2 ± 0.4 | 1.17 ± 0.03 |
| Life | F, SP | 100 ~~mm~~ | 1.1870 | 37.0 - 38.8 mm | 9.5 ± 0.3 | 0.58 ± 0.02 |
| Lucky Strike | NF, SP | 70 mm | 0.9437 | 23 mm | 28.7 ± 0.4 | 1.67 ± 0.02 |
| Lucky Filters | F, SP | 85 mm | 1.0196 | 26.2 - 27.8 mm | 22.0 ± 0.5 | 1.59 ± 0.03 |
| Lucky Filters | F, SP | 100 mm | 1.1656 | 31.9 - 34.0 mm | 21.8 ± 0.2 | 1.61 ± 0.03 |
| Mapleton | NF, SP | 70 mm | 0.9970 | 23 mm | 24.9 ± 0.6 | 0.98 ± 0.02 |
| Mapleton | F, SP | 85 mm | 1.1305 | 27.4 - 29.8 mm | 22.7 ± 0.4 | 1.07 ± 0.02 |
| Marlboro | F, HP | 80 mm | 1.0095 | 25.0 - 26.6 mm | 19.0 ± 0.5 | 1.25 ± 0.03 |
| Marlboro | F, SP | 85 mm | 1.0519 | 27.0 - 28.1 mm | 19.7 ± 0.3 | 1.32 ± 0.02 |

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; HWP-hard wide pack; mm-millimeter; PB-plastic box

2 average weight reported in grams

3 range used for butt length because of variance of overwrap

4 TPM dry (tar) - milligrams total particulate matter less nicotine and water

5 milligrams total alkaloids reported as nicotine

6 limited availability based on reduced sampling from Washington, D. C. only

7 cigarettes with and without perforations smoked together

8 cigarettes marketed with filters of different lengths

* tolerance shown is two (2) standard deviation of the means

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## "Tar"[4] and Nicotine[5] of One-Hundred twenty-one (121) Varieties of Domestic Cigarettes

| Name | Type[1] | | Average weight[2] | Butt length[3] | TPM dry[4] * | Nicotine[5] * |
|---|---|---|---|---|---|---|
| Marlboro | F, M, SP | 85 mm | 1.0657 | 27.1 - 28.8 mm | 18.4 ± 0.4 | 1.12 ± 0.03 |
| Marlboro | F, HP | 100 mm | 1.1570 | 32.0 - 34.0 mm | 21.3 ± 0.4 | 1.46 ± 0.03 |
| Marlboro | F, SP | 100 mm | 1.2015 | 32.2 - 33.5 mm | 21.5 ± 0.4 | 1.51 ± 0.02 |
| Marvels | NF, SP | 85 mm | 1.2038 | 23 mm | 23.3 ± 0.6 | 0.78 ± 0.02 |
| Marvels[7] | F, SP | 85 mm | 1.1005 | 27.2 - 29.0 mm | 5.1 ± 0.3 | 0.20 ± 0.01 |
| Marvels | F, M, SP | 85 mm | 1.1075 | 27.7 - 28.9 mm | 3.6 ± 0.2 | 0.17 ± 0.01 |
| Maryland[7] | F, M | 100 mm | 1.1765 | 32.0 - 33.9 mm | 19.6 ± 0.3 | 1.33 ± 0.02 |
| Montclair | F, M, SP | 85 mm | 1.0191 | 26.3 - 27.9 mm | 17.3 ± 0.9 | 1.26 ± 0.05 |
| Multifilter | F, PB | 85 mm | 1.7132 | 31.6 - 33.9 mm | 15.8 ± 0.3 | 1.12 ± 0.02 |
| Multifilter | F, M, PB | 85 mm | 1.1988 | 31.0 - 34.6 mm | 17.4 ± 0.5 | 0.91 ± 0.03 |
| New Leaf | F, M, SP | 85 mm | 1.0479 | 27.5 - 28.6 mm | 18.5 ± 0.3 | 1.28 ± 0.03 |
| Newport | F, M, HP | 80 mm | 0.9946 | 23.4 - 25.3 mm | 19.0 ± 0.3 | 1.08 ± 0.02 |
| Newport | F, M, SP | 85 mm | 1.0339 | 25.8 - 28.5 mm | 20.1 ± 0.6 | 1.11 ± 0.03 |
| Newport | F, M | 100 mm | 1.2066 | 32.2 - 34.3 mm | 21.3 ± 0.4 | 1.24 ± 0.03 |
| Oasis | F, M, SP | 85 mm | 1.0177 | 25.1 - 27.8 mm | 18.0 ± 0.3 | 1.07 ± 0.02 |
| Old Gold Straights | NF, SP | 70 mm | 0.9067 | 23 mm | 21.9 ± 0.4 | 1.22 ± 0.03 |
| Old Gold Straights | NF, SP | 85 mm | 1.1158 | 23 mm | 28.0 ± 0.5 | 1.54 ± 0.03 |
| Old Gold Filters | F, SP | 85 mm | 1.0358 | 26.1 - 27.9 mm | 20.3 ± 0.4 | 1.24 ± 0.02 |
| Old Gold Filters | F, SP | 100 mm | 1.2318 | 32.3 - 33.7 mm | 23.8 ± 0.7 | 1.45 ± 0.04 |
| Pall Mall | NF, SP | 85 mm | 1.1445 | 23 mm | 29.2 ± 0.3 | 1.82 ± 0.03 |
| Pall Mall | F, HWP | 95 mm | 1.1136 | 31.9 - 34.2 mm | 18.5 ± 0.4 | 1.33 ± 0.02 |
| Pall Mall | F, M, HWP | 95 mm | 1.0872 | 32.2 - 34.6 mm | 16.8 ± 0.4 | 1.20 ± 0.03 |
| Pall Mall | F, SP | 100 mm | 1.1532 | 31.6 - 34.4 mm | 18.8 ± 0.5 | 1.33 ± 0.03 |
| Pall Mall | F, M, SP | 100 mm | 1.1656 | 32.6 - 33.8 mm | 18.4 ± 0.3 | 1.37 ± 0.02 |
| Parliament | F, HP | 80 mm | 1.0293 | 29.8 - 31.8 mm | 15.6 ± 0.2 | 1.03 ± 0.02 |
| Parliament | F, SP | 85 mm | 1.0806 | 31.8 - 37.0 mm | 16.1 ± 0.3 | 1.01 ± 0.02 |
| Parliament | F, SP | 100 mm | 1.3638 | 37.7 - 39.8 mm | 19.3 ± 0.5 | 1.32 ± 0.02 |
| Peter Stuyvesant[6] | F, SP | 85 mm | 1.0727 | 23.0 - 27.2 mm | 18.8 ± 0.4 | 1.37 ± 0.03 |
| Peter Stuyvesant | F, SP | 100 mm | 1.2498 | 31.7 - 32.3 mm | 19.8 ± 0.3 | 1.46 ± 0.04 |
| Philip Morris | NF, SP | 70 mm | 0.9548 | 23 mm | 24.1 ± 0.6 | 1.51 ± 0.04 |
| Philip Morris Commander | NF, SP | 85 mm | 1.1527 | 23 mm | 29.3 ± 0.6 | 1.84 ± 0.02 |
| Picayune | NF, SP | 70 mm | 0.8952 | 23 mm | 19.4 ± 0.2 | 1.31 ± 0.03 |
| Piedmont | NF, SP | 70 mm | 0.9446 | 23 mm | 23.8 ± 0.3 | 1.32 ± 0.04 |
| Players | NF, HWP | 70 mm | 1.1069 | 23 mm | 33.4 ± 0.6 | 2.44 ± 0.05 |
| Raleigh | NF, SP | 85 mm | 1.0889 | 23 mm | 26.4 ± 0.6 | 1.62 ± 0.04 |
| Raleigh | F, SP | 85 mm | 1.0341 | 27.0 - 28.6 mm | 17.3 ± 0.4 | 1.21 ± 0.02 |
| Raleigh | F, SP | 100 mm | 1.1541 | 31.8 - 34.3 mm | 17.9 ± 0.4 | 1.31 ± 0.03 |
| Salem | F, M, SP | 85 mm | 1.0344 | 26.0 - 27.7 mm | 19.0 ± 0.4 | 1.26 ± 0.02 |
| Salem | F, M, SP | 100 mm | 1.2371 | 32.2 - 33.9 mm | 19.5 ± 0.4 | 1.30 ± 0.02 |
| Sano | NF, SP | 70 mm | 0.9983 | 23 mm | 14.9 ± 0.5 | 0.48 ± 0.02 |
| Sano | F, SP | 70 mm | 0.9484 | 26.2 - 27.8 mm | 3.5 ± 0.3 | 0.16 ± 0.01 |
| Silva Thins | F, SP | 100 mm | 1.1332 | 30.0 - 34.0 mm | 16.4 ± 0.6 | 1.13 ± 0.04 |
| Silva Thins | F, M, SP | 100 mm | 1.0499 | 31.9 - 34.2 mm | 15.5 ± 0.2 | 1.06 ± 0.02 |
| Spring | F, M, SP | 100 mm | 1.2283 | 32.0 - 34.0 mm | 21.7 ± 0.5 | 1.13 ± 0.02 |
| Tareyton | F, SP | 85 mm | 1.1.20 | 26.0 - 27.9 mm | 19.1 ± 0.4 | 1.26 ± 0.02 |
| Tareyton | F, SP | 100 mm | 1.2523 | 31.8 - 34.3 mm | 19.4 ± 0.4 | 1.34 ± 0.03 |
| Tempo | F, SP | 85 mm | 1.0759 | 32.7 - 33.7 mm | 11.5 ± 0.4 | 0.86 ± 0.02 |
| True | F, SP | 85 mm | 1.0635 | 31.6 - 34.3 mm | 12.0 ± 0.4 | 0.64 ± 0.02 |
| True | F, M, SP | 85 mm | 1.0559 | 31.8 - 33.7 mm | 12.6 ± 0.2 | 0.66 ± 0.01 |
| Vantage | F, SP | 85 mm | 1.2502 | 32.4 - 33.8 mm | 11.8 ± 0.4 | 0.81 ± 0.02 |
| Viceroy | F, SP | 85 mm | 1.0225 | 25.7 - 29.6 mm | 17.4 ± 0.3 | 1.19 ± 0.03 |
| Viceroy | F, SP | 100 mm | 1.1748 | 31.3 - 33.9 mm | 18.0 ± 0.3 | 1.27 ± 0.02 |
| Virginia Slims | F, SP | 100 mm | 1.0082 | 33.9 - 35.8 mm | 17.2 ± 0.3 | 1.14 ± 0.03 |
| Virginia Slims | F, M, SP | 100 mm | 1.0133 | 34.0 - 35.5 mm | 18.0 ± 0.3 | 1.21 ± 0.02 |
| Vogue (black) | F, HWP | 85 mm | 1.1374 | 23.0 - 24.0 mm | 26.6 ± 1.2 | 0.93 ± 0.05 |
| Vogue (colors) | F, HWP | 85 mm | 1.0999 | 23.0 - 23.9 mm | 18.3 ± 1.0 | 0.66 ± 0.03 |
| Winston | F, HP | 80 mm | 0.9821 | 23.8 - 24.5 mm | 19.5 ± 0.2 | 1.31 ± 0.02 |
| Winston | F, SP | 85 mm | 1.0213 | 26.0 - 27.8 mm | 19.4 ± 0.4 | 1.32 ± 0.03 |
| Winston | F, SP | 100 mm | 1.2249 | 32.0 - 34.5 mm | 20.0 ± 0.3 | 1.34 ± 0.02 |
| Winston | F, M, SP | 100 mm | 1.2638 | 30.9 - 33.9 mm | 20.8 ± 0.4 | 1.45 ± 0.03 |

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; HWP-herd wide pack; mm-millimeter
PB-plastic box

2 average weight reported in grams

3 range used for butt length because of variance of overwrap

4 TPM dry (tar) - milligrams total particulate matter less nicotine and water

5 milligrams total alkaloids reported as nicotine

6 limited availability based on reduced sampling from Washington, D. C. only

7 cigarettes with and without perforations smoked together

8 cigarettes marketed with filters of different lengths

* tolerance shown is two (2) standard deviation of the means

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Tar[1] and Nicotine Content of One-hundred twenty-one (121) Variaties of Domestic Cigarettes
(shown in increasing order of tar values)

| Brand | Type | Tar (mg/cig) | Nicotine (mg/cig) |
|---|---|---|---|
| Carlton[2] | reg. size, filter | 3 | 0.2 |
| Sano | reg. size, filter | 4 | 0.2 |
| Marvels | king size, filter, menthol | 4 | 0.2 |
| Carlton | king size, filter | 4 | 0.4 |
| Marvels | king size, filter | 5 | 0.2 |
| King Sano | king size, filter | 6 | 0.3 |
| King Sano | king size, filter, menthol | 6 | 0.2 |
| Life | king size, filter | 10 | 0.6 |
| Frappe | king size, filter, menthol | 10 | 0.3 |
| Kent | reg size, filter | 10 | 0.6 |
| Tempo | king size, filter | 12 | 0.9 |
| Vantage | king size, filter | 12 | 0.8 |
| True | king size, filter | 12 | 0.6 |
| Multifilter | king size, filter, menthol, (plastic box) | 12 | 0.9 |
| True | king size, filter, menthol | 13 | 0.7 |
| Doral | king size, filter | 14 | 0.9 |
| Doral | king size, filter, menthol | 14 | 1.0 |
| Sano | reg. size, non-filter | 15 | 0.5 |
| Silva Thins | 100 mm, filter, menthol | 16 | 1.1 |
| Parliament | king size, filter, (hard pack) | 16 | 1.0 |
| Multifilter | king size, filter, (plastic box) | 16 | 1.1 |
| Parliament | king size, filter | 16 | 1.0 |
| L & M | reg. size, filter | 16 | 1.0 |
| Silva Thins | 100 mm, filter | 16 | 1.1 |
| Kent | king size, filter | 17 | 1.0 |
| Eve | 100 mm, filter | 17 | 1.2 |
| Kent | king size, filter | 17 | 1.0 |
| Lark | king size, filter | 17 | 1.0 |
| Pall Mall | 95 mm, filter, menthol, (hard pack) | 17 | 1.2 |
| L & M | king size, filter, (hard pack) | 17 | 1.1 |
| Eve | 100 mm, filter, menthol | 17 | 1.1 |
| Belair | king size, filter, menthol | 17 | 1.3 |
| Virginia Slims | 100 mm, filter | 17 | 1.1 |
| Viceroy | king size, filter | 17 | 1.2 |
| Raleigh | king size, filter | 17 | 1.2 |
| Montclair | king size, filter, menthol | 17 | 1.3 |
| DuMaurier | king size, filter, (hard pack) | 18 | 1.2 |
| Raleigh | 100 mm, filter | 18 | 1.3 |
| Oasis | king size, filter, menthol | 18 | 1.1 |
| Virginia Slims | 100 mm, filter, menthol | 18 | 1.2 |
| Viceroy | 100 mm, filter | 18 | 1.3 |
| Edgeworth Export | king size, filter, (hard pack) | 18 | 1.2 |
| Edgeworth Export | 100 mm, filter, menthol | 18 | 1.3 |
| Lark | 100 mm, filter | 18 | 1.2 |
| Alpine | king size, filter, menthol | 18 | 1.2 |
| Benson & Hedges | reg. size, filter, (hard pack) | 18 | 1.3 |
| Pall Mall | 100 mm, filter, menthol | 18 | 1.4 |
| Kool | king size, filter, menthol | 18 | 1.4 |
| Marlboro | king size, filter, menthol | 18 | 1.1 |
| Vogue (colors) | king size, filter, (hard pack) | 18 | 0.7 |
| New Leaf | king size, filter, menthol | 19 | 1.3 |
| Chesterfield | king size, filter, menthol | 19 | 1.1 |
| Pall Mall | 95 mm, filter, (hard pack) | 19 | 1.3 |
| Chesterfield | king size, filter | 19 | 1.2 |
| Edgeworth Export | 100 mm, filter | 19 | 1.3 |
| L & M | 100 mm, filter, menthol | 19 | 1.2 |
| Belair | 100 mm, filter, menthol | 19 | 1.4 |
| Kent | 100 mm, filter, menthol | 19 | 1.1 |
| Peter Stuyvesant | king size, filter | 19 | 1.4 |
| L & M | 100 mm, filter | 19 | 1.3 |
| Pall Mall | 100 mm, filter | 19 | 1.3 |

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2 limited availability based on reduced sampling from Washington, D. C. only

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Tar[1] and Nicotine Content of One-hundred twenty-one (121) Varieties
of Domestic Cigarettes
(shown in increasing order of tar values)

| Brand | Type | Tar (mg/cig) | Nicotine (mg/cig) |
|---|---|---|---|
| Salem | king size, filter, menthol | 19 | 1.3 |
| Newport | king size, filter, menthol, (hard pack) | 19 | 1.1 |
| Kool | 100 mm, filter, menthol | 19 | 1.4 |
| L & M | king size, filter | 19 | 1.3 |
| Marlboro | king size, filter, (hard pack) | 19 | 1.3 |
| Chesterfield | 101 mm, filter | 19 | 1.3 |
| Tareyton | king size, filter | 19 | 1.3 |
| Kent | 100 mm, filter | 19 | 1.2 |
| Parliament | 100 mm, filter | 19 | 1.3 |
| Picayune | reg. size, non-filter | 19 | 1.3 |
| Winston | king size, filter | 19 | 1.3 |
| Tareyton | 100 mm, filter | 19 | 1.3 |
| Home Run | reg. size, non-filter | 19 | 1.3 |
| Winston | king size, filter, (hard pack) | 20 | 1.3 |
| Camel | king size, filter | 20 | 1.3 |
| Salem | 100 mm, filter, menthol | 20 | 1.3 |
| Maryland | 100 mm, filter, menthol | 20 | 1.3 |
| Domino | king size, filter, menthol | 20 | 1.3 |
| Marlboro | king size, filter | 20 | 1.3 |
| Peter Stuyvesant | 100 mm, filter | 20 | 1.5 |
| Benson & Hedges | king size, filter, (hard pack) | 20 | 1.4 |
| Winston | 100 mm, filter | 20 | 1.3 |
| Galaxy | king size, filter | 20 | 1.4 |
| Newport | king size, filter, menthol | 20 | 1.1 |
| Old Gold Filters | king size, filter | 20 | 1.2 |
| Benson & Hedges | 100 mm, filter, menthol | 21 | 1.4 |
| Benson & Hedges | 100 mm, filter | 21 | 1.4 |
| Kool | reg. size, non-filter, menthol | 21 | 1.3 |
| Winston | 100 mm, filter, menthol | 21 | 1.5 |
| Newport | 100 mm, filter, menthol | 21 | 1.2 |
| Marlboro | 100 mm, filter, (hard pack) | 21 | 1.5 |
| Domino | king size, filter | 21 | 1.3 |
| Marlboro | 100 mm, filter | 22 | 1.5 |
| Spring | 100 mm, filter, menthol | 22 | 1.1 |
| Lucky Filters | 100 mm, filter | 22 | 1.6 |
| Old Gold Straights | reg. size, non-filter | 22 | 1.2 |
| Lucky Filters | king size, filter | 22 | 1.6 |
| Mapleton | king size, filter | 23 | 1.1 |
| Harvels | king size, non-filter | 23 | 0.8 |
| Piedmont | reg. size, non-filter | 24 | 1.3 |
| Old Gold Filters | 100 mm, filter | 24 | 1.5 |
| Half & Half | king size, filter | 24 | 1.7 |
| Philip Morris | reg. size, non-filter | 24 | 1.5 |
| English Ovals | reg. size, non-filter, (hard pack) | 25 | 1.8 |
| Camel | reg. size, non-filter | 25 | 1.5 |
| Chesterfield | reg. size, non-filter | 25 | 1.5 |
| Mapleton | reg. size, non-filter | 25 | 1.0 |
| Raleigh | king size, non-filter | 26 | 1.6 |
| Vogue (black) | king size, filter, (hard pack) | 27 | 0.9 |
| Domino | king size, non-filter | 27 | 1.4 |
| Old Gold Straights | king size, non-filter | 28 | 1.5 |
| Lucky Strike | reg. size, non-filter | 29 | 1.7 |
| Herbert Tareyton | king size, non-filter | 29 | 1.8 |
| Pall Mall | king size, non-filter | 29 | 1.8 |
| Chesterfield | king size, non-filter | 29 | 1.7 |
| Philip Morris Commander | king size, non-filter | 29 | 1.8 |
| Bull Durham | king size, filter | 30 | 1.9 |
| English Ovals | king size, non-filter | 30 | 2.2 |
| Fatima | king size, non-filter | 32 | 1.9 |
| Players | reg. size, non-filter | 33 | 2.4 |

[1] TPM dry (tar) = milligrams total particulate matter less nicotine and water

PM3001059231

Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Tar[1] and Nicotine Content of One-hundred twenty-one (121) Varieties
of Domestic Cigarettes
(shown in increasing order of nicotine values)

| Brand | Type | Tar (mg/cig) | Nicotine (mg/cig) |
|---|---|---|---|
| Sano | reg. size, filter | 4 | 0.2 |
| Marvels | king size, filter | 4 | 0.2 |
| Marvels | king size, filter | 5 | 0.2 |
| Carlton[2] | reg. size, filter | 3 | 0.2 |
| King Sano | king size, filter, menthol | 6 | 0.2 |
| King Sano | king size, filter | 6 | 0.3 |
| Frappe | king size, filter, menthol | 10 | 0.3 |
| Carlton | king size, filter | 4 | 0.4 |
| Sano | reg. size, non-filter | 15 | 0.5 |
| Kent | reg. size, filter | 10 | 0.6 |
| Life | king size, filter | 10 | 0.6 |
| True | king size, filter | 12 | 0.6 |
| True | king size, filter, menthol | 13 | 0.7 |
| Vogue (colors) | king size, filter, (hard pack) | 18 | 0.7 |
| Marvels | king size, non-filter | 23 | 0.8 |
| Vantage | king size, filter | 12 | 0.8 |
| Tempo | king size, filter | 12 | 0.9 |
| Multifilter | king size, filter, menthol, (plastic box) | 12 | 0.9 |
| Vogue (black) | king size, filter, (hard pack) | 27 | 0.9 |
| Doral | king size, filter | 14 | 0.9 |
| Kent | king size, filter | 17 | 1.0 |
| Kent | king size, filter, (hard pack) | 17 | 1.0 |
| Doral | king size, filter, menthol | 14 | 1.0 |
| Mapleton | reg. size, non-filter | 25 | 1.0 |
| L & M | reg. size, filter | 16 | 1.0 |
| Parliament | king size, filter | 16 | 1.0 |
| Parliament | king size, filter, (hard pack) | 16 | 1.0 |
| Lark | king size, filter | 17 | 1.0 |
| Silva Thins | 100 mm, filter, menthol | 16 | 1.1 |
| Oasis | king size, filter, menthol | 18 | 1.1 |
| Mapleton | king size, filter | 23 | 1.1 |
| Newport | king size, filter, menthol, (hard pack) | 19 | 1.1 |
| L & M | king size, filter, (hard pack) | 17 | 1.1 |
| Eve | 100 mm, filter, menthol | 17 | 1.1 |
| Chesterfield | king size, filter, menthol | 19 | 1.1 |
| Newport | king size, filter, menthol | 20 | 1.1 |
| Multifilter | king size, filter, (plastic box) | 16 | 1.1 |
| Marlboro | king size, filter, menthol | 18 | 1.1 |
| Spring | 100 mm, filter, menthol | 22 | 1.1 |
| Silva Thins | 100 mm, filter | 16 | 1.1 |
| Kent | 100 mm, filter, menthol | 19 | 1.1 |
| Virginia Slims | 100 mm, filter | 17 | 1.1 |
| Alpine | king size, filter, menthol | 18 | 1.2 |
| Kent | 100 mm, filter | 19 | 1.2 |
| Eve | 100 mm, filter | 17 | 1.2 |
| Lark | 100 mm, filter | 18 | 1.2 |
| Viceroy | king size, filter | 17 | 1.2 |
| L & M | 100 mm, filter, menthol | 19 | 1.2 |
| Edgeworth Export | king size, filter, (hard pack) | 18 | 1.2 |
| Pall Mall | 95 mm, filter, menthol, (hard pack) | 17 | 1.2 |
| Raleigh | king size, filter | 17 | 1.2 |
| Virginia Slims | 100 mm, filter, menthol | 18 | 1.2 |
| Old Gold Straights | reg. size, non-filter | 22 | 1.2 |
| Chesterfield | king size, filter | 19 | 1.2 |
| DuMaurier | king size, filter, (hard pack) | 18 | 1.2 |
| Old Gold Filters | king size, filter | 20 | 1.2 |
| Newport | 100 mm, filter, menthol | 21 | 1.2 |
| Belair | king size, filter, menthol | 17 | 1.3 |
| Marlboro | king size, filter, (hard pack) | 19 | 1.3 |
| Salem | king size, filter, menthol | 19 | 1.3 |
| Tareyton | king size, filter | 19 | 1.3 |

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water
2 limited availability based on reduced sampling from Washington, D. C. only

PM3001059232

Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Tar[1] and Nicotine Content of One-hundred twenty-one (121) Varieties
of Domestic Cigarettes
(shown in increasing order of nicotine values)

| Brand | Type | Tar (mg/cig) | Nicotine (mg/cig) |
|---|---|---|---|
| L & M | king size, filter | 19 | 1.3 |
| Montclair | king size, filter, menthol | 17 | 1.3 |
| Viceroy | 100 mm, filter | 18 | 1.3 |
| Home Run | reg. size, non-filter | 19 | 1.3 |
| New Leaf | king size, filter, menthol | 19 | 1.3 |
| L & M | 100 mm, filter | 19 | 1.3 |
| Chesterfield | 101 mm, filter | 19 | 1.3 |
| Domino | king size, filter | 21 | 1.3 |
| Benson & Hedges | reg. size, filter, (hard pack) | 18 | 1.3 |
| Salem | 100 mm, filter, menthol | 20 | 1.3 |
| Winston | king size, filter, (hard pack) | 20 | 1.3 |
| Camel | king size, filter | 20 | 1.3 |
| Raleigh | 100 mm, filter | 18 | 1.3 |
| Picayune | reg. size, non-filter | 19 | 1.3 |
| Domino | king size, filter, menthol | 20 | 1.3 |
| Edgeworth Export | 100 mm, filter, menthol | 18 | 1.3 |
| Parliament | 100 mm, filter | 19 | 1.3 |
| Marlboro | king size, filter | 20 | 1.3 |
| Winston | king size, filter | 19 | 1.3 |
| Piedmont | reg. size, non-filter | 24 | 1.3 |
| Pall Mall | 95 mm, filter, (hard pack) | 19 | 1.3 |
| Maryland | 100 mm, filter, menthol | 20 | 1.3 |
| Pall Mall | 100 mm, filter | 19 | 1.3 |
| Winston | 100 mm, filter | 20 | 1.3 |
| Edgeworth Export | 100 mm, filter | 19 | 1.3 |
| Tareyton | 100 mm, filter | 19 | 1.3 |
| Kool | reg. size, non-filter, menthol | 21 | 1.3 |
| Pall Mall | 100 mm, filter, menthol | 18 | 1.4 |
| Kool | 100 mm, filter, menthol | 19 | 1.4 |
| Peter Stuyvesant | king size, filter | 19 | 1.4 |
| Belair | 100 mm, filter, menthol | 19 | 1.4 |
| Benson & Hedges | 100 mm, filter, menthol | 21 | 1.4 |
| Benson & Hedges | 100 mm, filter | 21 | 1.4 |
| Kool | king size, filter, menthol | 18 | 1.4 |
| Galaxy | king size, filter | 20 | 1.4 |
| Domino | king size, non-filter | 27 | 1.4 |
| Benson & Hedges | king size, filter, (hard pack) | 20 | 1.4 |
| Winston | 100 mm, filter, menthol | 21 | 1.5 |
| Camel | reg. size, non-filter | 25 | 1.5 |
| Old Gold Filters | 100 mm, filter | 24 | 1.5 |
| Marlboro | 100 mm, filter, (hard pack) | 21 | 1.5 |
| Peter Stuyvesant | 100 mm, filter | 20 | 1.5 |
| Chesterfield | reg. size, non-filter | 25 | 1.5 |
| Marlboro | 100 mm, filter | 22 | 1.5 |
| Philip Morris | reg. size, non-filter | 24 | 1.5 |
| Old Gold Straights | king size, non-filter | 28 | 1.5 |
| Lucky Filters | king size, filter | 22 | 1.6 |
| Lucky Filters | 100 mm, filter | 22 | 1.6 |
| Raleigh | king size, non-filter | 26 | 1.6 |
| Lucky Strike | reg. size, non-filter | 29 | 1.7 |
| Half & Half | king size, filter | 24 | 1.7 |
| Chesterfield | king size, non-filter | 29 | 1.7 |
| English Ovals | reg. size, non-filter, (hard pack) | 25 | 1.8 |
| Herbert Tareyton | king size, non-filter, | 29 | 1.8 |
| Pall Mall | king size, non-filter | 29 | 1.8 |
| Philip Morris Commander | king size, non-filter | 29 | 1.8 |
| Bull Durham | king size, filter | 30 | 1.9 |
| Fatima | king size, non-filter | 32 | 1.9 |
| English Ovals | king size, non-filter, (hard pack) | 30 | 2.2 |
| Players | reg. size, non-filter, (hard pack) | 33 | 2.4 |

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059233

Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

| Brand | Type | July, 1969 | Nov., 1969 | May, 1970 | Oct., 1970 | Aug., 1971 |
|---|---|---|---|---|---|---|
| Alpine | king size, filter, menthol | 20 | 19 | 19 | 18 | 18 |
| Belair | king size, filter, menthol | 19 | 18 | 18 | 16 | 17 |
| Belair | 100 mm, filter, menthol | * | * | 19 | 18 | 19 |
| Benson & Hedges | reg. size, filter, (hard pack) | 20 | 20 | 19 | 19 | 18 |
| Benson & Hedges | king size, filter, (hard pack) | 20 | 20 | 20 | 20 | 20 |
| Benson & Hedges | 100 mm, filter | 21 | 20 | 20 | 20 | 21 |
| Benson & Hedges | 100 mm, filter, menthol | 22 | 21 | 21 | 21 | 21 |
| Bull Durham | king size, filter | 29 | 29 | 28 | 28 | 30 |
| Camel | reg. size, non-filter | 25 | 25 | 25 | 24 | 25 |
| Camel | king size, filter | 21 | 21 | 20 | 20 | 20 |
| Carlton | reg. size, filter | * | * | 2 | 2 | 3 |
| Carlton | king size, filter | 4 | 5 | 4 | 4 | 4 |
| Century | 100 mm, filter | 22 | 21 | 20 | 21 | * |
| Chesterfield | reg. size, non-filter | 25 | 24 | 25 | 24 | 25 |
| Chesterfield | king size, non-filter | 30 | 29 | 29 | 28 | 29 |
| Chesterfield | king size, filter | 22 | 21 | 21 | 20 | 19 |
| Chesterfield | king size, filter, menthol | 20 | 19 | 19 | 18 | 19 |
| Chesterfield | 101 mm, filter | 20 | 21 | 21 | 21 | 19 |
| Domino | king size, non-filter | 26 | 25 | 24 | 25 | 27 |
| Domino | king size, filter | 21 | 21 | 21 | 22 | 21 |
| Domino | king size, filter, menthol | 16 | 16 | 18 | 17 | 20 |
| Doral | king size, filter | * | 15 | 14 | 14 | 14 |
| Doral | king size, filter, menthol | * | 14 | 14 | 13 | 14 |
| Duke of Durham | king size, filter | 10 | 10 | 10 | 10 | * |
| DuMaurier | king size, filter, (hard pack) | 18 | 18 | 18 | 18 | 18 |
| Edgeworth Export | king size, filter, (hard pack) | * | * | * | 18 | 18 |
| Edgeworth Export | 100 mm, filter | * | * | * | 20 | 19 |
| Edgeworth Export | 100 mm, filter, menthol | * | * | * | * | 18 |
| English Ovals | reg. size, non-filter, (hard pack) | 28 | 28 | 26 | 24 | 25 |
| English Ovals | king size, non-filter, (hard pack) | 35 | 31 | 29 | 29 | 30 |
| Eve | 100 mm, filter | * | * | * | * | 17 |
| Eve | 100 mm, filter, menthol | * | * | * | * | 17 |
| Fatima | king size, non-filter | 32 | 32 | 31 | 31 | 32 |
| Frappe | king size, filter, menthol | 11 | 10 | 10 | 9 | 10 |
| Galaxy | king size, filter | 21 | 20 | 21 | 20 | 20 |
| Gauloises Caporal | reg. size, non-filter | 26 | 24 | 22 | 20 | * |
| Gauloises Disque Bleu | reg. size, filter | 21 | 21 | 20 | 17 | * |
| Half & Half | king size, filter | 23 | 22 | 23 | 23 | 24 |
| Herbert Tareyton | king size, non-filter | 29 | 27 | 27 | 28 | 29 |
| Holiday | king size, non-filter | 32 | 31 | * | * | * |
| Holiday | king size, filter | 25 | 25 | * | * | * |
| Home Run | reg. size, non-filter | 20 | 19 | 20 | 19 | 19 |
| Kent | reg. size, filter | 10 | 10 | 10 | 9 | 10 |
| Kent | king size, filter, (hard pack) | 17 | 17 | 16 | 16 | 17 |
| Kent | king size, filter | 17 | 16 | 16 | 16 | 17 |
| Kent | 100 mm, filter | 18 | 19 | 19 | 19 | 19 |
| Kent | 100 mm, filter, menthol | * | * | * | * | 19 |
| King Sano | king size, filter | 7 | 7 | 5 | 6 | 6 |
| King Sano | king size, filter, menthol | 8 | 7 | 7 | 6 | 6 |
| Kool | reg. size, non-filter, menthol | 21 | 21 | 20 | 21 | 21 |
| Kool | king size, filter, menthol | 19 | 18 | 17 | 18 | 18 |
| Kool | 100 mm, filter, menthol | 21 | 20 | 20 | 19 | 19 |
| L & M | reg. size, filter | 18 | 17 | 17 | 17 | 16 |
| L & M | king size, filter, (hard pack) | 18 | 18 | 18 | 18 | 17 |
| L & M | king size, filter | 20 | 19 | 19 | 18 | 19 |
| L & M | 100 mm, filter | 19 | 19 | 19 | 19 | 19 |
| L & M | 100 mm, filter, menthol | 20 | 19 | 19 | 19 | 19 |
| Lark | king size, filter | 18 | 17 | 17 | 17 | 17 |
| Lark | 100 mm, filter | 19 | 18 | 18 | 18 | 18 |
| Life | king size, filter | 11 | 11 | 10 | 11 | 10 |
| Lucky Strike | reg. size, non-filter | 28 | 28 | 28 | 27 | 29 |
| Lucky Filters | king size, filter | 22 | 21 | 20 | 20 | 22 |
| Lucky Filters | king size, filter, menthol | 20 | * | * | * | * |
| Lucky Filters | 100 mm, filter | 21 | 20 | 20 | 20 | 22 |
| Lucky Filters | 100 mm, filter, menthol | 18 | * | * | * | * |
| Mapleton | reg. size, non-filter | 24 | 26 | 27 | 25 | 25 |
| Mapleton | king size, filter | 22 | 22 | 22 | 22 | 23 |
| Marlboro | king size, filter, (hard pack) | 20 | 19 | 19 | 19 | 19 |
| Marlboro | king size, filter | 21 | 20 | 20 | 20 | 20 |
| Marlboro | king size, filter, menthol | 21 | 21 | 20 | 19 | 18 |
| Marlboro | 100 mm, filter | 22 | 21 | 21 | 22 | 22 |
| Marlboro | 100 mm, filter, (hard pack) | 21 | 21 | 21 | 21 | 21 |

* Denotes variables not available during market sampling

1 TPM dry (tar) = milligrams total particulate matter less nicotine and water

PM3001059234

Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

| Brand | Type | July, 1969 | Nov., 1969 | May, 1970 | Oct., 1970 | Aug., 1971 |
|---|---|---|---|---|---|---|
| Marvels | reg. size, non-filter | 18 | 20 | 17 | 17 | * |
| Marvels | reg. size, filter | 3 | 4 | 3 | 3 | * |
| Marvels | king size, non-filter | 24 | 24 | 23 | 23 | 23 |
| Marvels | king size, filter | 6 | 6 | 5 | 5 | 5 |
| Marvels | king size, filter, menthol | 5 | 4 | 4 | 4 | 4 |
| Maryland | 100 mm, filter, menthol | * | * | * | * | 20 |
| Montclair | king size, filter, menthol | 9 | 9 | 11 | 13 | 17 |
| Multifilter | king size, filter, (plastic box) | * | * | 16 | 15 | 16 |
| Multifilter | king size, filter, menthol, (plastic box) | * | * | 13 | 12 | 12 |
| New Leaf | king size, filter, menthol | * | * | * | * | 19 |
| Newport | king size, filter, menthol, (hard pack) | 20 | 19 | 19 | 19 | 19 |
| Newport | king size, filter, menthol | 21 | 20 | 19 | 19 | 20 |
| Newport | 100 mm, filter, menthol | 22 | 21 | 21 | 21 | 21 |
| Oasis | king size, filter, menthol | 19 | 19 | 18 | 18 | 18 |
| Old Gold Straights | reg. size, non-filter | 23 | 22 | 21 | 22 | 22 |
| Old Gold Straights | king size, non-filter | 28 | 27 | 27 | 27 | 28 |
| Old Gold Filters | king size, filter | 21 | 20 | 20 | 19 | 20 |
| Old Gold Filters | 100 mm, filter | * | 24 | 24 | 24 | 24 |
| Pall Mall | king size, non-filter | 28 | 28 | 28 | 28 | 29 |
| Pall Mall | 95 mm, filter, (hard pack) | 19 | 19 | 19 | 19 | 19 |
| Pall Mall | 95 mm, filter, menthol, (hard pack) | 18 | 17 | 17 | 17 | 17 |
| Pall Mall | 100 mm, filter | 19 | 19 | 19 | 20 | 19 |
| Pall Mall | 100 mm, filter, menthol | 17 | 18 | 18 | 18 | 18 |
| Parliament | king size, filter, (hard pack) | 16 | 16 | 16 | 16 | 16 |
| Parliament | king size, filter | 16 | 16 | 16 | 16 | 16 |
| Parliament | 100 mm, filter | * | * | * | 19 | 19 |
| Peter Stuyvesant | king size, filter | * | * | * | 24 | 19 |
| Peter Stuyvesant | 100 mm, filter | * | * | * | 22 | 20 |
| Philip Morris | reg. size, non-filter | 25 | 24 | 23 | 23 | 24 |
| Philip Morris Commander | king size, non-filter | 30 | 29 | 29 | 29 | 29 |
| Philip Morris | king size, filter | 19 | 19 | * | * | * |
| Philip Morris | king size, filter, menthol | 20 | 15 | * | * | * |
| Picayune | reg. size, non-filter | 21 | 20 | 21 | 19 | 19 |
| Piedmont | reg. size, non-filter | 25 | 24 | 24 | 24 | 24 |
| Players | reg. size, non-filter, (hard pack) | 32 | 31 | 31 | 30 | 33 |
| Raleigh | king size, non-filter | 28 | 25 | 26 | 24 | 26 |
| Raleigh | king size, filter | 19 | 18 | 17 | 17 | 17 |
| Raleigh | 100 mm, filter | * | * | 18 | 18 | 18 |
| Salem | king size, filter, menthol | 20 | 20 | 20 | 19 | 19 |
| Salem | 100 mm, filter, menthol | 21 | 21 | 21 | 21 | 20 |
| Sano | reg. size, non-filter | 14 | 14 | 15 | 15 | 15 |
| Sano | reg. size, filter | 4 | * | 4 | * | 4 |
| Silva Thins | 100 mm, filter | 15 | 16 | 16 | 16 | 16 |
| Silva Thins | 100 mm, filter, menthol | 16 | 16 | 16 | 16 | 16 |
| Spring | 100 mm, filter, menthol | 21 | 21 | 21 | 21 | 22 |
| Stratford | king size, non-filter | 25 | 24 | 23 | 22 | * |
| Stratford | king size, filter | 19 | 18 | 19 | * | * |
| Stratford | king size, filter, menthol | 21 | 19 | 19 | * | * |
| Tareyton | king size, filter | 17 | 16 | 17 | 17 | 19 |
| Tareyton | 100 mm, filter | 16 | 17 | 18 | 18 | 19 |
| Tempo | king size, filter | 13 | 12 | 12 | 12 | 12 |
| True | king size, filter | 12 | 13 | 13 | 12 | 12 |
| True | king size, filter, menthol | 12 | 12 | 12 | 13 | 13 |
| Tryon | king size, filter | * | 12 | * | * | * |
| Tyron | king size, filter, menthol | 11 | 11 | * | * | * |
| Vantage | king size, filter | * | * | * | * | 12 |
| Viceroy | king size, filter | 19 | 18 | 17 | 17 | 17 |
| Viceroy | 100 mm, filter | 20 | 19 | 20 | 19 | 18 |
| Virginia Slims | 100 mm, filter | 18 | 18 | 18 | 18 | 17 |
| Virginia Slims | 100 mm, filter, menthol | 18 | 18 | 18 | 18 | 18 |
| Vogue (black) | king size, filter, (hard pack) | 18 | 20 | 22 | 25 | 27 |
| Vogue (colors) | king size, filter, (hard pack) | 13 | 13 | 16 | 18 | 18 |
| Winston | king size, filter, (hard pack) | 21 | 21 | 20 | 20 | 20 |
| Winston | king size, filter | 21 | 21 | 20 | 20 | 19 |
| Winston | 100 mm, filter | 21 | 22 | 21 | 20 | 20 |
| Winston | 100 mm, filter, menthol | 21 | 21 | 22 | 22 | 21 |
| Yukon | king size, filter, menthol | 20 | 20 | * | * | * |

* Denotes varieties not available during market sampling

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059235

Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Listing of Nicotine Values for Five (5) Testing Periods

| Brand | Type | July, 1969 | Nov., 1969 | May, 1970 | Oct., 1970 | Aug., 1971 |
|---|---|---|---|---|---|---|
| Alpine | king size, filter, menthol | 1.3 | 1.3 | 1.1 | 1.2 | 1.2 |
| Belair | king size, filter, menthol | 1.5 | 1.5 | 1.4 | 1.2 | 1.3 |
| Belair | 100 mm, filter, menthol | * | * | 1.4 | 1.3 | 1.4 |
| Benson & Hedges | reg. size, filter, (hard pack) | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 |
| Benson & Hedges | king size, filter, (hard pack) | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 |
| Benson & Hedges | 100 mm, filter | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| Benson & Hedges | 100 mm, filter, menthol | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| Bull Durham | king size, filter | 1.9 | 1.8 | 1.7 | 1.8 | 1.9 |
| Camel | reg. size, non-filter | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 |
| Camel | king size, filter | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 |
| Carlton | reg. size, filter | * | * | 0.2 | 0.2 | 0.2 |
| Carlton | king size, filter | 0.3 | 0.4 | 0.3 | 0.3 | 0.4 |
| Century | 100 mm, filter | 1.4 | 1.3 | 1.3 | 1.3 | * |
| Chesterfield | reg. size, non-filter | 1.4 | 1.3 | 1.4 | 1.4 | 1.5 |
| Chesterfield | king size, non-filter | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 |
| Chesterfield | king size, filter | 1.5 | 1.4 | 1.4 | 1.3 | 1.2 |
| Chesterfield | king size, filter, menthol | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 |
| Chesterfield | 101 mm, filter | 1.3 | 1.5 | 1.5 | 1.4 | 1.3 |
| Domino | king size, non-filter | 1.2 | 1.1 | 1.1 | 1.2 | 1.4 |
| Domino | king size, filter | 1.0 | 1.0 | 1.0 | 1.1 | 1.3 |
| Domino | king size, filter, menthol | 0.9 | 0.9 | 1.0 | 0.9 | 1.3 |
| Doral | king size, filter | * | 1.0 | 0.9 | 0.9 | 0.9 |
| Doral | king size, filter, menthol | * | 1.0 | 1.0 | 1.0 | 1.0 |
| Duke of Durham | king size, filter | 0.4 | 0.4 | 0.3 | 0.3 | * |
| DuMaurier | king size, filter, (hard pack) | 1.4 | 1.4 | 1.3 | 1.3 | 1.2 |
| Edgeworth Export | king size, filter, (hard pack) | * | * | * | 1.2 | 1.2 |
| Edgeworth Export | 100 mm, filter | * | * | * | 1.4 | 1.3 |
| Edgeworth Export | 100 mm, filter, menthol | * | * | * | * | 1.3 |
| English Ovals | reg. size, non-filter, (hard pack) | 2.1 | 2.1 | 1.9 | 1.8 | 1.8 |
| English Ovals | king size, non-filter, (hard pack) | 2.7 | 2.5 | 2.2 | 2.2 | 2.2 |
| Eve | 100 mm, filter | * | * | * | * | 1.2 |
| Eve | 100 mm, filter, menthol | * | * | * | * | 1.1 |
| Fatima | king size, non-filter | 1.9 | 1.9 | 1.8 | 1.8 | 1.9 |
| Frappe | king size, filter, menthol | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 |
| Galaxy | king size, filter | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 |
| Gauloises Caporal | reg. size, non-filter | 1.3 | 1.2 | 1.1 | 1.0 | * |
| Gauloises Disque Blau | reg. size, filter | 1.2 | 1.2 | 1.1 | 0.9 | * |
| Half & Half | king size, filter | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 |
| Herbert Tareyton | king size, non-filter | 1.7 | 1.6 | 1.6 | 1.7 | 1.9 |
| Holiday | king size, non-filter | 2.2 | 1.9 | * | * | * |
| Holiday | king size, filter | 1.8 | 1.6 | * | * | * |
| Home Run | reg. size, non-filter | 1.6 | 1.5 | 1.5 | 1.3 | 1.3 |
| Kent | reg. size, filter | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 |
| Kent | king size, filter, (hard pack) | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| Kent | king size, filter | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| Kent | 100 mm, filter | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Kent | 100 mm, filter, menthol | * | * | * | * | 1.1 |
| King Sano | king size, filter | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| King Sano | king size, filter, menthol | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Kool | reg. size, non-filter, menthol | 1.7 | 1.5 | 1.3 | 1.3 | 1.3 |
| Kool | king size, filter, menthol | 1.6 | 1.5 | 1.3 | 1.4 | 1.4 |
| Kool | 100 mm, filter, menthol | 1.7 | 1.5 | 1.5 | 1.3 | 1.4 |
| L & M | reg. size, filter | 1.0 | 1.0 | 0.9 | 0.9 | 1.0 |
| L & M | king size, filter, (hard pack) | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 |
| L & M | king size, filter | 1.2 | 1.1 | 1.1 | 1.1 | 1.3 |
| L & M | 100 mm, filter | 1.2 | 1.1 | 1.1 | 1.2 | 1.3 |
| L & M | 100 mm, filter, menthol | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 |
| Lark | king size, filter | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 |
| Lark | 100 mm, filter | 1.3 | 1.1 | 1.1 | 1.1 | 1.2 |
| Life | king size, filter | 0.7 | 0.7 | 0.6 | 0.7 | 0.6 |
| Lucky Strike | reg. size, non-filter | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 |
| Lucky Filters | king size, filter | 1.4 | 1.4 | 1.3 | 1.5 | 1.6 |
| Lucky Filters | king size, filter, menthol | 1.2 | * | * | * | * |
| Lucky Filters | 100 mm, filter | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 |
| Lucky Filters | 100 mm, filter, menthol | 1.1 | * | * | * | * |
| Mapleton | reg. size, non-filter | 0.9 | 1.1 | 1.1 | 1.0 | 1.0 |
| Mapleton | king size, filter | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 |
| Marlboro | king size, filter, (hard pack) | 1.4 | 1.3 | 1.3 | 1.2 | 1.3 |
| Marlboro | king size, filter | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 |
| Marlboro | king size, filter, menthol | 1.4 | 1.4 | 1.3 | 1.3 | 1.1 |
| Marlboro | 100 mm, filter | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| Marlboro | 100 mm, filter, (hard pack) | 1.6 | 1.5 | 1.4 | 1.4 | 1.5 |

* Denotes varieties not available during market sampling

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Source: https://www.industrydocuments.ucsf.edu/docs/ymkk0001

Listing of Nicotine Values for Five (5) Testing Periods

| Brand | Type | July, 1969 | Nov., 1969 | May, 1970 | Oct., 1970 | Aug., 1971 |
|---|---|---|---|---|---|---|
| Marvels | reg. size, non-filter | 0.6 | 0.7 | 0.6 | 0.6 | * |
| Marvels | reg. size, filter | 0.1 | 0.1 | 0.1 | 0.1 | * |
| Marvels | king size, non-filter | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 |
| Marvels | king size, filter | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Marvels | king size, filter, menthol | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Maryland | 100 mm, filter, menthol | * | * | * | * | 1.3 |
| Montclair | king size, filter, menthol | 0.7 | 0.7 | 0.8 | 0.9 | 1.3 |
| Multifilter | king size, filter, (plastic box) | * | * | 1.0 | 1.0 | 1.1 |
| Multifilter | king size, filter, menthol, (plastic box) | * | * | 0.9 | 0.9 | 0.9 |
| New Leaf | king size, filter, menthol | * | * | * | * | 1.3 |
| Newport | king size, filter, menthol, (hard pack) | 1.3 | 1.2 | 1.1 | 1.1 | 1.1 |
| Newport | king size, filter, menthol | 1.3 | 1.2 | 1.1 | 1.1 | 1.1 |
| Newport | 100 mm, filter, menthol | 1.4 | 1.3 | 1.3 | 1.3 | 1.2 |
| Oasis | king size, filter, menthol | 1.2 | 1.1 | 1.0 | 1.0 | 1.1 |
| Old Gold Straights | reg. size, non-filter | 1.4 | 1.3 | 1.2 | 1.3 | 1.2 |
| Old Gold Straights | king size, non-filter | 1.8 | 1.6 | 1.6 | 1.6 | 1.5 |
| Old Gold Filters | king size, filter | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 |
| Old Gold Filters | 100 mm, filter | * | 1.5 | 1.5 | 1.5 | 1.5 |
| Pall Mall | king size, non-filter | 1.7 | 1.8 | 1.8 | 1.7 | 1.6 |
| Pall Mall | 95 mm, filter, (hard pack) | 1.3 | 1.2 | 1.3 | 1.3 | 1.3 |
| Pall Mall | 95 mm, filter, menthol, (hard pack) | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 |
| Pall Mall | 100 mm, filter | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 |
| Pall Mall | 100 mm, filter, menthol | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 |
| Parliament | king size, filter, (hard pack) | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| Parliament | king size, filter | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| Parliament | 100 mm, filter | * | * | * | 1.3 | 1.3 |
| Peter Stuyvesant | king size, filter | * | * | * | 1.5 | 1.4 |
| Peter Stuyvesant | 100 mm, filter | * | * | * | 1.5 | 1.5 |
| Philip Morris | reg. size, non-filter | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 |
| Philip Morris Commander | king size, non-filter | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 |
| Philip Morris | king size, filter | 1.4 | 1.4 | * | * | * |
| Philip Morris | king size, filter, menthol | 1.5 | 1.1 | * | * | * |
| Picayune | reg. size, non-filter | 1.8 | 1.6 | 1.5 | 1.4 | 1.3 |
| Piedmont | reg. size, non-filter | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 |
| Players | reg. size, non-filter, (hard pack) | 2.1 | 2.1 | 2.1 | 2.0 | 2.4 |
| Raleigh | king size, non-filter | 2.1 | 1.7 | 1.6 | 1.5 | 1.6 |
| Raleigh | king size, filter | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 |
| Raleigh | 100 mm, filter | * | * | 1.2 | 1.2 | 1.3 |
| Salem | king size, filter, menthol | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 |
| Salem | 100 mm, filter, menthol | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 |
| Sano | reg. size, non-filter | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Sano | reg. size, filter | 0.2 | * | 0.1 | * | 0.2 |
| Silva Thins | 100 mm, filter | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 |
| Silva Thins | 100 mm, filter, menthol | 0.9 | 1.0 | 1.0 | 1.0 | 1.1 |
| Spring | 100 mm, filter, menthol | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 |
| Stratford | king size, non-filter | 1.0 | 1.0 | 0.9 | 0.8 | * |
| Stratford | king size, filter | 0.7 | 0.7 | 0.7 | * | * |
| Stratford | king size, filter, menthol | 0.8 | 0.8 | 0.8 | * | * |
| Tareyton | king size, filter | 1.0 | 1.0 | 1.1 | 1.1 | 1.3 |
| Tareyton | 100 mm, filter | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 |
| Tempo | king size, filter | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| True | king size, filter | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |
| True | king size, filter, menthol | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 |
| Tryon | king size, filter | * | 0.9 | * | * | * |
| Tryon | king size, filter, menthol | 0.8 | 0.7 | * | * | * |
| Vantage | king size, filter | * | * | * | * | 0.8 |
| Viceroy | king size, filter | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 |
| Viceroy | 100 mm, filter | 1.6 | 1.5 | 1.4 | 1.4 | 1.3 |
| Virginia Slims | 100 mm, filter | 1.3 | 1.2 | 1.2 | 1.2 | 1.1 |
| Virginia Slims | 100 mm, filter, menthol | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 |
| Vogue (black) | king size, filter, (hard pack) | 0.6 | 0.7 | 0.7 | 0.9 | 0.9 |
| Vogue (colors) | king size, filter, (hard pack) | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 |
| Winston | king size, filter, (hard pack) | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 |
| Winston | king size, filter | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 |
| Winston | 100 mm, filter | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 |
| Winston | 100 mm, filter, menthol | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Yukon | king size, filter, menthol | 0.8 | 0.9 | * | * | * |

* Denotes varieties not available during market sampling

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